

**BVM Engineering College (An Autonomous Institution)**  
**Mechanical Engineering Department**  
**M. Tech. Machine Design**

**Semester 1**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">501MD</a>	<a href="#">Advanced Machine Design</a>	3	1	0	4	4
2	<a href="#">502MD</a>	<a href="#">Computer Aided Design</a>	3	0	2	5	4
3	<a href="#">503MD</a>	<a href="#">Research Methodology and Experimental Techniques</a>	3	0	2	5	4
4		Program Elective - I	3	0	2	5	4
5		Program Elective - II	3	0	0	3	3
<b>Total</b>			<b>15</b>	<b>1</b>	<b>6</b>	<b>22</b>	<b>19</b>

**Program Elective - I**

1	<a href="#">541MD</a>	<a href="#">Industrial Tribology</a>	3	0	2	5	4
2	<a href="#">542MD</a>	<a href="#">Vibrations and Noise</a>	3	0	2	5	4
3	<a href="#">543MD</a>	<a href="#">Advanced Engineering Dynamics</a>	3	0	2	5	4

**Program Elective - II**

1	<a href="#">544MD</a>	<a href="#">Machine Tool Design</a>	3	0	0	3	3
2	<a href="#">545MD</a>	<a href="#">Design for Manufacture and Assembly</a>	3	0	0	3	3
3	<a href="#">546MD</a>	<a href="#">Quality and Reliability Engineering</a>	3	0	0	3	3

**Semester 2**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">504MD</a>	<a href="#">Mechanics of Composite Materials</a>	3	0	2	5	4
2	<a href="#">505MD</a>	<a href="#">Finite Element Methods</a>	3	0	2	5	4
3	<a href="#">506MD</a>	<a href="#">Geometric Dimensioning and Tolerancing</a>	3	0	0	3	3
4		Program Elective - III	3	0	2	5	4
5		Program Elective - IV	3	1	0	4	4
6		Program Elective - V	3	0	2	5	4
<b>Total</b>			<b>18</b>	<b>1</b>	<b>8</b>	<b>27</b>	<b>23</b>

Program Elective - III							
1	<a href="#">547MD</a>	<a href="#">Advanced Numerical Methods</a>	3	0	2	5	4
2	<a href="#">548MD</a>	<a href="#">Robotics and Control</a>	3	0	2	5	4
3	<a href="#">549MD</a>	<a href="#">Design Of Heat Exchangers</a>	3	0	2	5	4

Program Elective - IV							
1	<a href="#">550MD</a>	<a href="#">Fracture Mechanics</a>	3	1	0	4	4
2	<a href="#">551MD</a>	<a href="#">Piping System Design</a>	3	1	0	4	4
3	<a href="#">552MD</a>	<a href="#">Design of Pressure Vessels</a>	3	1	0	4	4
4	<a href="#">553MD</a>	<a href="#">Design of Material Handling Equipment</a>	3	1	0	4	4
5	<a href="#">554MD</a>	<a href="#">Design Optimization Techniques</a>	3	1	0	4	4

Program Elective - V							
1	<a href="#">555MD</a>	<a href="#">Thermal System Design and Simulation</a>	3	0	2	5	4
2	<a href="#">556MD</a>	<a href="#">Oil Hydraulic and Pneumatics</a>	3	0	2	5	4
3	<a href="#">557MD</a>	<a href="#">Rotor Dynamics</a>	3	0	2	5	4

### Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">631MD</a>	<a href="#">Dissertation - I</a>	0	0	30	30	15
<b>Total</b>			<b>0</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>15</b>

### Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">632MD</a>	<a href="#">Dissertation - II</a>	0	0	30	30	15
<b>Total</b>			<b>0</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>15</b>
<b>Total Credits Distributions</b>			<b>33</b>	<b>2</b>	<b>74</b>	<b>109</b>	<b>72</b>